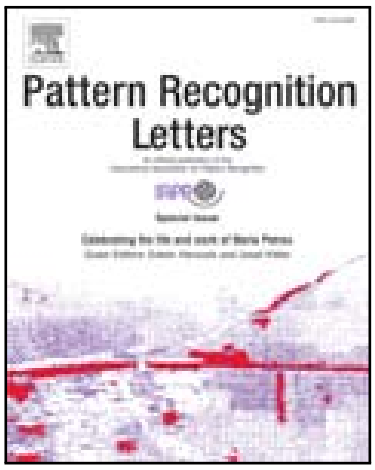
Accepted Manuscript



Discrete Space Reinforcement Learning Algorithm Based on Support Vector Machine Classification

Yuexuan An , Shifei Ding , Songhui Shi , Jingcan Li

PII: S0167-8655(18)30132-6
DOI: 10.1016/j.patrec.2018.04.012
Reference: PATREC 7140

To appear in: *Pattern Recognition Letters*

Received date: 21 September 2017
Revised date: 29 January 2018
Accepted date: 9 April 2018

Please cite this article as: Yuexuan An , Shifei Ding , Songhui Shi , Jingcan Li , Discrete Space Reinforcement Learning Algorithm Based on Support Vector Machine Classification, *Pattern Recognition Letters* (2018), doi: 10.1016/j.patrec.2018.04.012

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- SVM classification is applied to the reinforcement learning algorithm
- Advantage Actor-Critic Method is combined with SVM
- The result of SVM classification is used as the action selected by Actor
- SVM optimization uses the advantage value to speed up the convergence rate
- ~~The advantage value is used for SVM optimization~~
- ~~Gradient descent method is adopted to optimize the parameters of SVM~~

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6940195

Download Persian Version:

https://daneshyari.com/article/6940195

Daneshyari.com